

FIG. 1

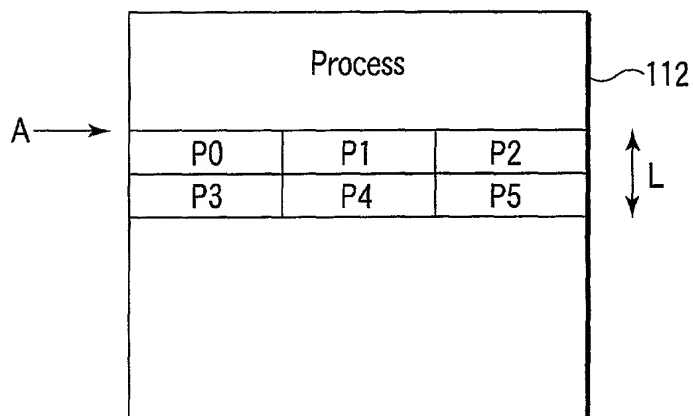


FIG. 3

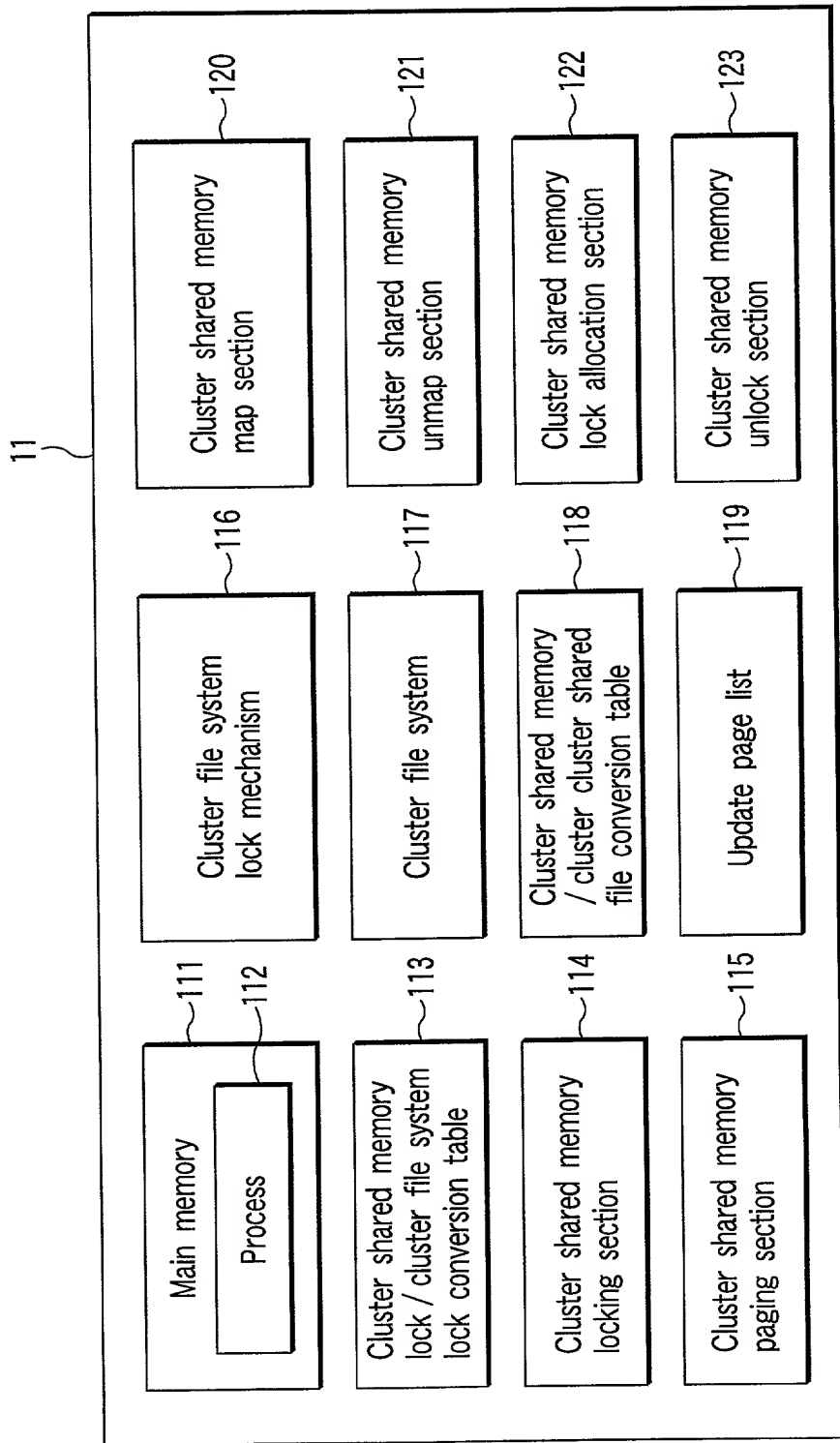


FIG. 2

FIG. 4

113

113a

113b

Cluster shared memory lock ID	Cluster file system lock ID
18	1018

FIG. 5

118

118a

118b

118c

118d

118e

Address	Size	File name	File descriptor	Offset
A	L	DDDD	7	0

FIG. 6

119

P4	P2		

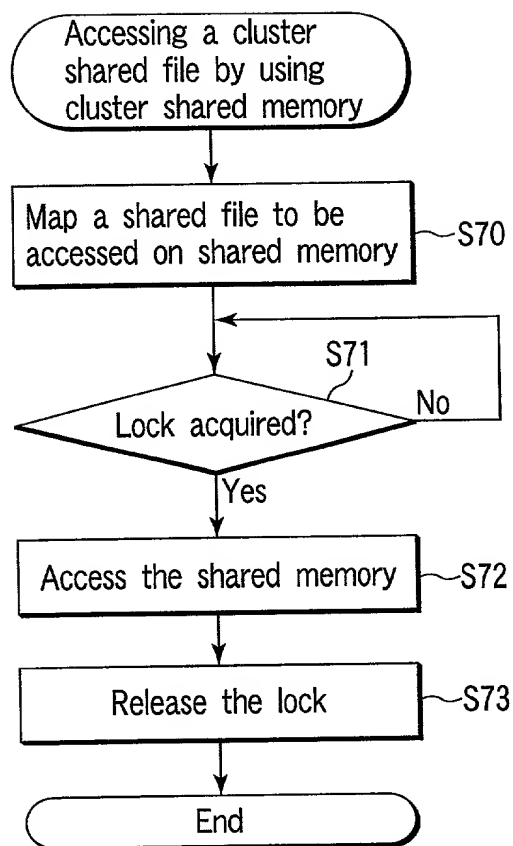


FIG. 7

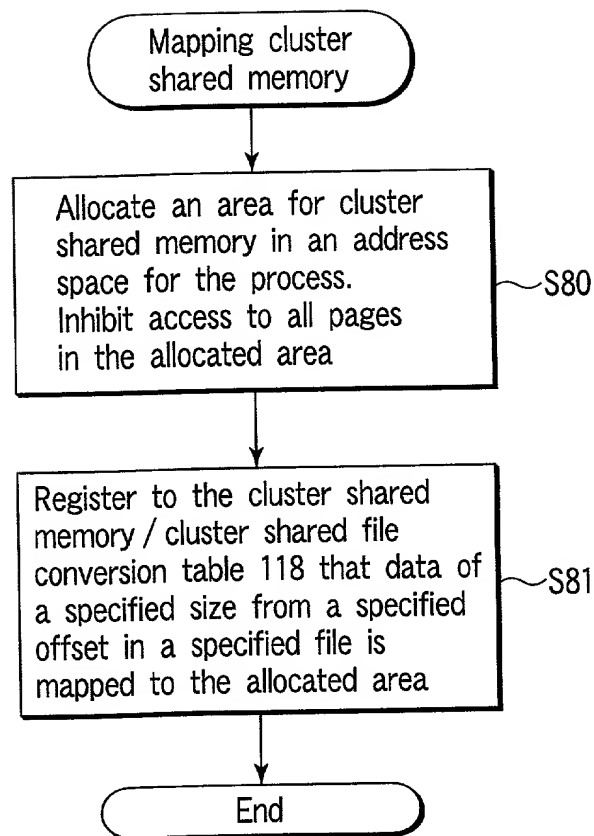


FIG. 8

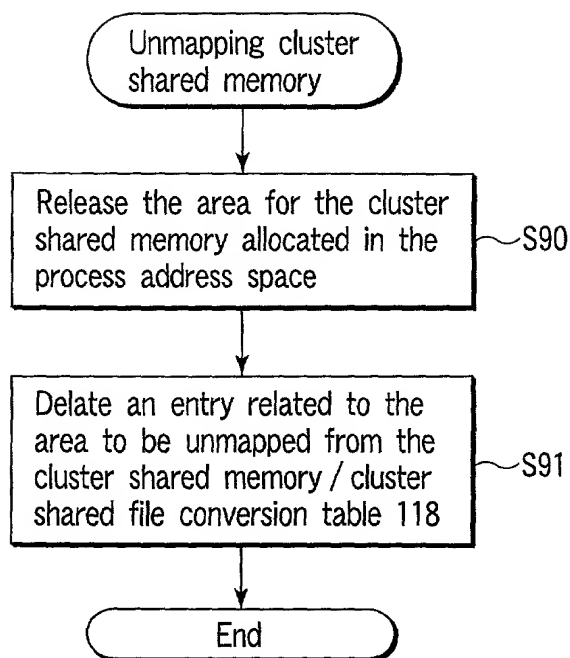


FIG. 9

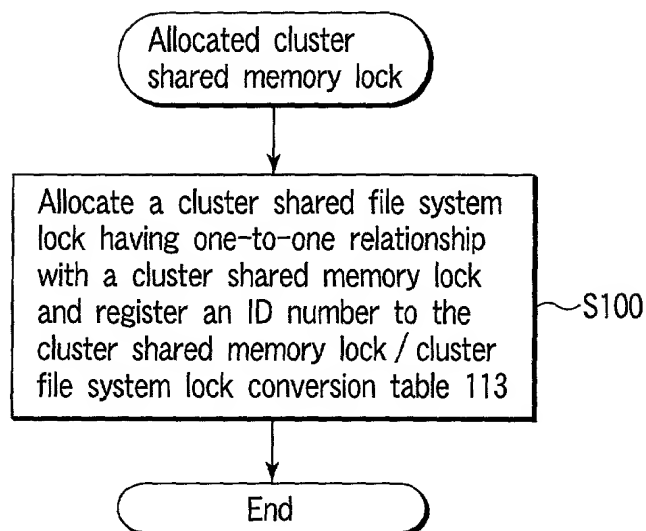


FIG. 10

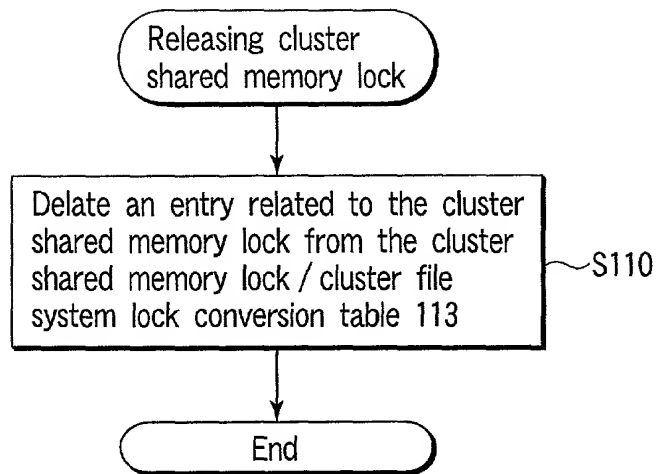


FIG. 11

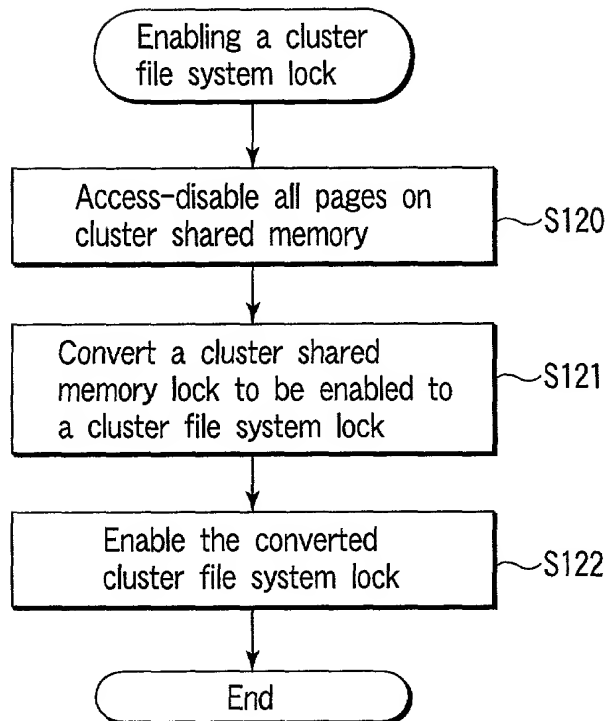


FIG. 12

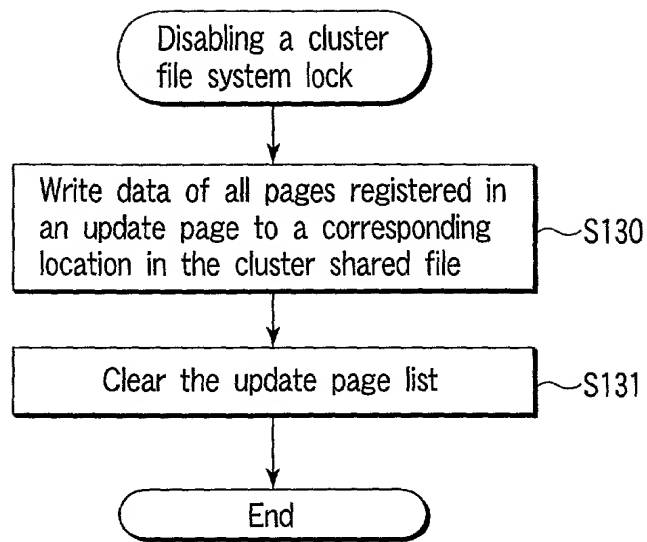


FIG. 13

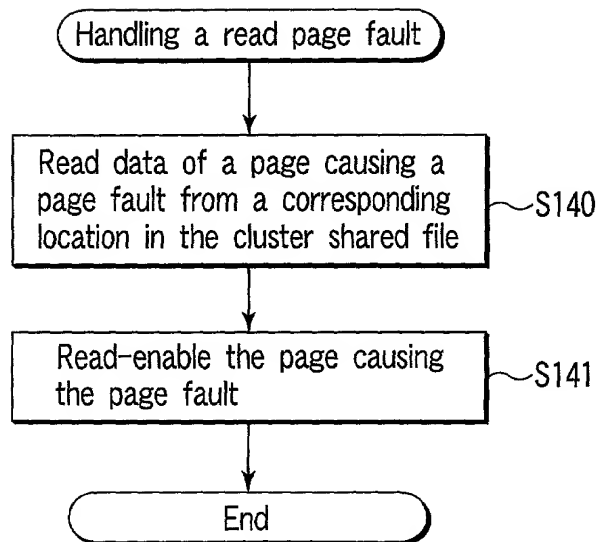


FIG. 14

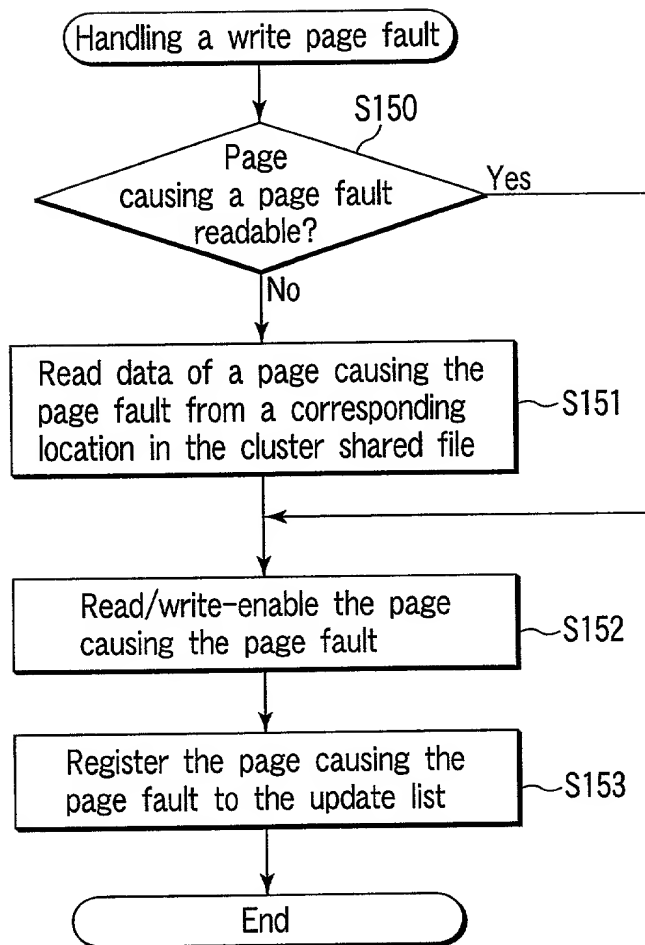


FIG. 15



The diagram illustrates a shared disk system. At the top, there are two server computers: "Server computer A" on the left and "Server computer B" on the right. Each server contains a "Process A".

Server computer A's Process A has the following steps:

- S1 : Lock
- S2 : Add 1 to data X
- S3 : Unlock
- S7 : Lock
- S8 : Add 1 to data X
- S9 : Unlock

Server computer B's Process A has the following steps:

- S4 : Lock
- S5 : Add 1 to data X
- S6 : Unlock

At the bottom, there is a "Shared disk device C" represented by a cylinder. It contains a "File D" which in turn contains a data item "X". Arrows point from the bottom of each server computer to the shared disk device, indicating access.

FIG. 16